Blakely, Sokoloff, Taylor & Zafman LLP (503) 684-6200 Title: A METHOD OF DISTRIBUTED RESOURCES MANAGEMENT OF I/O DEVICES IN A NETWORK CLUSTER

1st Named Inventor: R. Woodruff

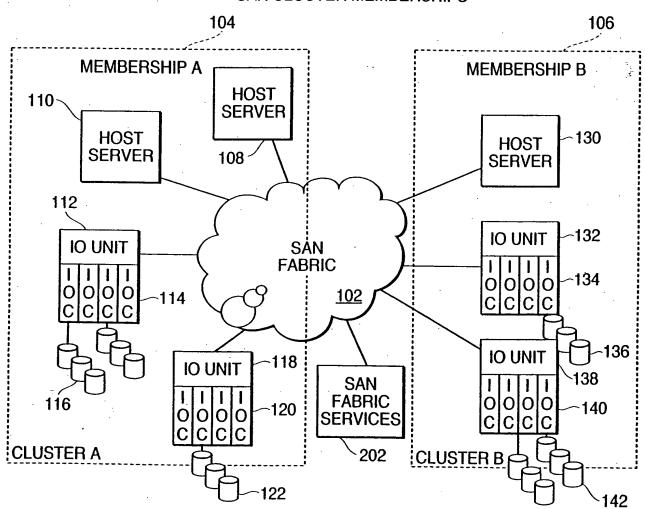
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FIG. 1

SAN CLUSTER MEMBERSHIPS



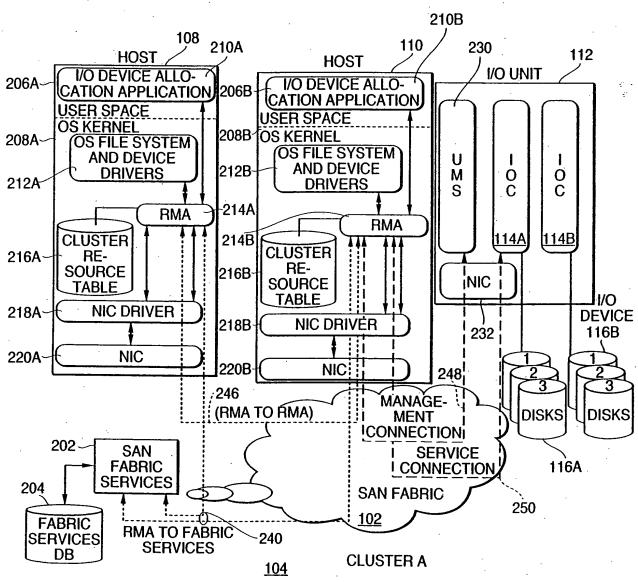
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FIG. 2



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FIG. 3

EXAMPLE OF NETWORK TOPOLOGY INFORMATION STORED BY FABRIC SERVICES DATABASE 204

	302 /30	4 /306	/308		10 /312
<u>RÓW</u>	<u>GUÍD</u>	DEV. TYPE	MAC ADDR.	CLUSTER	<u>OWNERSHIP</u>
1	HOST108	HOST	ADDR_FOR_108	Α	NA
2	HOST110	HOST	ADDR_FOR_110	A -	NA
3	I/OU112	I/OUNIT	ADDR_FOR_112	Α	SHARED-HOST108,HOST110
4	I/OU118	I/OUNIT	ADDR_FOR_118	Α	DEDHOST 110
5	HOST130	HOST	ADDR_FOR_130	. B	NA
6	I/OU132	I/OUNIT	ADDR_FOR_132	В	DEDHOST130
7	I/OU138	I/OUNIT	ADDR_FOR_138	В	DEDHOST130

TIME & DATE STAMP (INDICATING TIME AND DATE OF LAST UPDATE BY I/O DEVICE ALLOCATION APPLICATION 210):

TIME: 06:32:44 DATE: 05/01/90 Blakely, Sokoloff, Taylor & Zafman LLP (503) 684-6200 Title: A METHOD OF DISTRIBUTED RESOURCES MANAGEMENT OF I/O DEVICES IN A NETWORK CLUSTER

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FIG. 4 EXAMPLE OF CLUSTER RESOURCE TABLE (CRT) STORED BY A HOST CLUSTER A

		•	_{<} 408	4	10	
/	402 40	4 /406	NIĆ	IOC/IOD	_/ 412	_/ 414
ROW	<u>GUÍD</u>	<u>TYPE</u>	MAC ADDR.	NUMBER	<u>PARÉNT</u>	<u>OWNERSHIP</u>
1 .	HOST108	HOST	NIC_ADDR_108	NA	CLUSTER A	NA
2	HOST110	HOST	NIC_ADDR_110	NA	CLUSTER A	NA
3	I/OU112	I/OUNIT	NIC_ADDR_112	NA	CLUSTER A	SHARED-HOST108, HOST110
4	I/OC114A	I/O CONTROLLER	NIC_ADDR_112	I/OC1	I/OU112	SHARED-HOST108, HOST110
5	I/OD116A1	I/O D-HDD	NIC_ADDR_112	I/OD1	I/OC114A	DEDHOST 108
6	I/OD116A2	I/O D-HDD	NIC_ADDR_112	I/OD2	I/OC114A	DEDHOST110
7	I/OC114B	I/O CONTROLLER	NIC_ADDR_112	I/OC2	I/OU112	SHARED-HOST108, HOST110
8	I/OD116B1	I/O D-HDD	NIC_ADDR_112	I/OD1	I/OC114B	SHARED-HOST108, HOST110
9	I/OU118	I/OUNIT	NIC_ADDR_118	NA	CLUSTER A	DEDHOST110
10	I/OC120	I/O CONTROLLER	NIC_ADDR_118	I/OC1	I/OU118	DEDHOST110
11	I/OD122A	I/O D-HDD	NIC_ADDR_118	I/OD:1	I/OC120	DEDHOST110

TIME & DATE STAMP (INDICATING TIME AND DATE OF LAST UPDATE):

TIME: 07:39:44 DATE: 05/01/90 Blakely, Sokoloff, Taylor & Zafman LLP (503) 684-6200 Title: A METHOD OF DISTRIBUTED RESOURCES MANAGEMENT OF 1/0

DEVICES IN A NETWORK CLUSTER 1st Named Inventor: R. Woodruff Express Mail No.: EV325531691US

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FIG. 5

